

[FIG.1]

CELL A

CELL B

5 [FIG.2]

FREQUENCY

CELL A

CELL B

TIME

10 COLLISION OF HOPPING PATTERNS

[FIG.3]

QUALITY

QUALITY DETERIORATION DUE TO COLLISION

15 SYMBOL

[FIG.4]

100 OFDM RECEPTION APPARATUS

101 RECEPTION RF SECTION

20 104 PILOT RECEPTION POWER MEASURING SECTION

105 DATA SECTION RECEPTION POWER MEASURING SECTION

PILOT/DATA POWER RATIO INFORMATION

106 DATA SECTION RECEPTION POWER PREDICTION SECTION

107 POWER COMPARISON SECTION

25 COLLISION POSITION INFORMATION

103 ERROR CORRECTING/DECODING SECTION

108 COLLISION POSITION DETECTION SECTION

DECODED DATA

HOPPING PATTERN INFORMATION

[FIG.5]

POWER

- 5 POWER INCREASE DUE TO COLLISION
SYMBOL

[FIG.6]

POWER

- 10 SYMBOL
POWER DECREASE DUE TO COLLISION

[FIG.7]

OTHER CELL SIGNAL

- 15 OWN CELL SIGNAL
RECEIVED SIGNAL
ACTUAL RECEPTION POWER
RECEPTION POWER PREDICTED FROM PILOT

20 [FIG.8]

OWN CELL SIGNAL

OTHER CELL SIGNAL

RECEIVED SIGNAL

ACTUAL RECEPTION POWER

- 25 RECEPTION POWER PREDICTED FROM PILOT

[FIG.9]

200 OFDM RECEPTION APPARATUS

101 RECEPTION RF SECTION
 104 PILOT RECEPTION POWER MEASURING SECTION
 105 DATA SECTION RECEPTION POWER MEASURING SECTION
 PILOT/DATA POWER RATIO INFORMATION
 5 106 DATA SECTION RECEPTION POWER PREDICTION SECTION
 103 ERROR CORRECTING/DECODING SECTION
 COLLISION POSITION INFORMATION
 107 POWER COMPARISON SECTION
 201 ERROR RATE CALCULATION SECTION
 10 202 THRESHOLD CONTROL SECTION
 THRESHOLD
 108 COLLISION POSITION DETECTION SECTION
 DECODED DATA
 HOPPING PATTERN INFORMATION
 15
 [FIG.10]
 300 OFDM RECEPTION APPARATUS
 101 RECEPTION RF SECTION
 104 PILOT RECEPTION POWER MEASURING SECTION
 20 105 DATA SECTION RECEPTION POWER MEASURING SECTION
 PILOT/DATA POWER RATIO INFORMATION
 106 DATA SECTION RECEPTION POWER PREDICTION SECTION
 301 RECEPTION AVERAGE SIR DETECTION SECTION
 107 POWER COMPARISON SECTION
 25 302 TABLE SECTION
 103 ERROR CORRECTING/DECODING SECTION
 COLLISION POSITION INFORMATION
 THRESHOLD

108 COLLISION POSITION DETECTION SECTION
 DECODED DATA
 HOPPING PATTERN INFORMATION

5 [FIG.11]

PERFORMANCE (ERROR RATE)

BAD

GOOD

SMALL

10 LARGE

THRESHOLD

[FIG.12]

400 OFDM RECEPTION APPARATUS

15 101 RECEPTION RF SECTION

104 PILOT RECEPTION POWER MEASURING SECTION

105 DATA SECTION RECEPTION POWER MEASURING SECTION

401 RECEPTION AVERAGE SIR DETECTION SECTION

PILOT/DATA POWER RATIO INFORMATION

20 106 DATA SECTION RECEPTION POWER PREDICTION SECTION

402 TABLE CREATION SECTION

103 ERROR CORRECTING/DECODING SECTION

COLLISION POSITION INFORMATION

107 POWER COMPARISON SECTION

25 403 ERROR RATE CALCULATION SECTION

404 THRESHOLD CONTROL SECTION

THRESHOLD

108 COLLISION POSITION DETECTION SECTION

DECODED DATA

HOPPING PATTERN INFORMATION